

Aerospace Physiology Technician (NEC HM- 8409)



The background of the slide is a dark green field with a fine grid pattern. Overlaid on this is a large, semi-transparent circular graphic that resembles a technical drawing or a cross-section of a mechanical component, possibly a turbine or engine part. The text is rendered in a bright green color that contrasts sharply with the dark background.

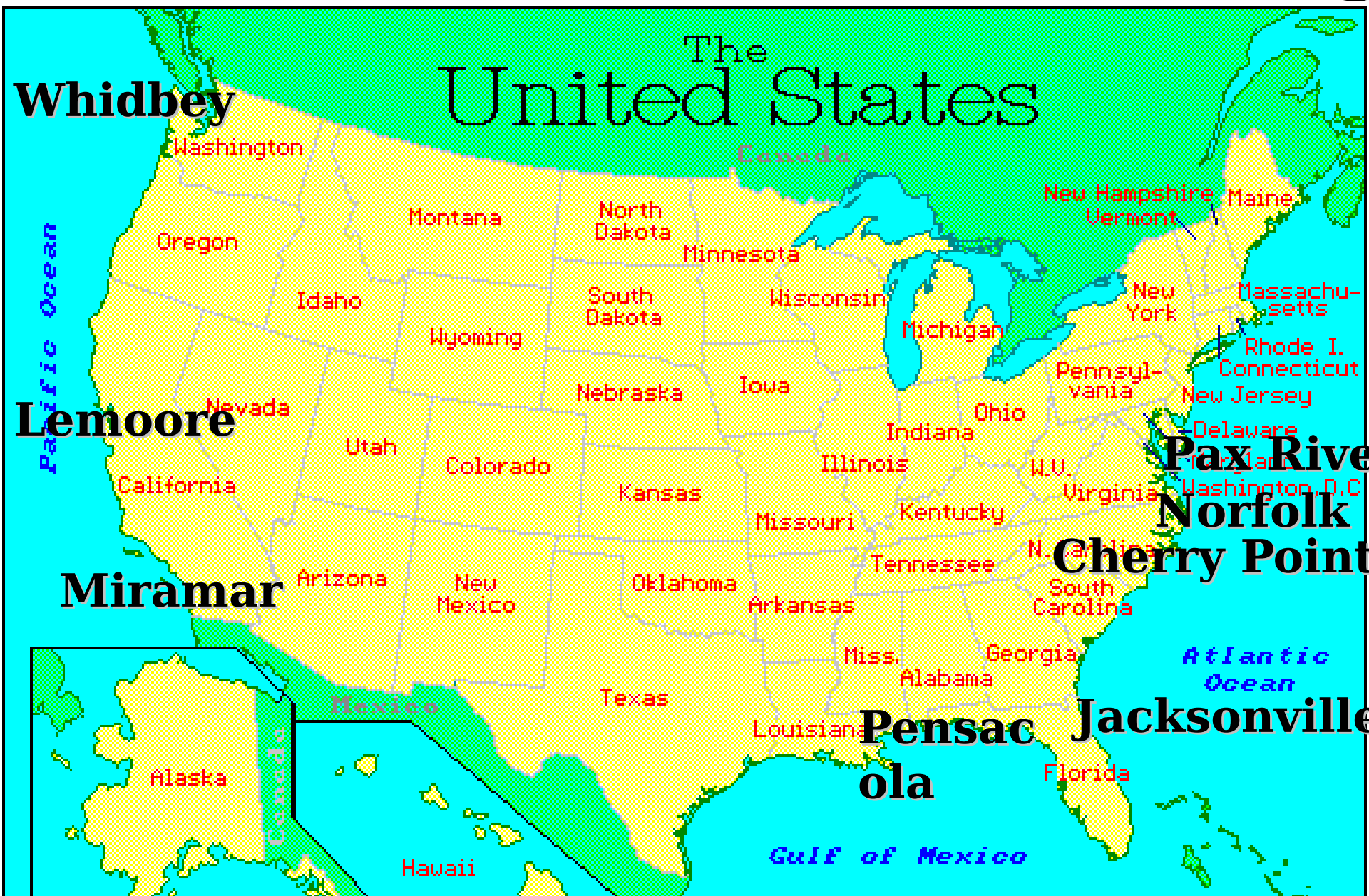
Aerospace Physiology Technician (NEC HM- 8409)

Program Overview &
Requirements

Program Overview

- ▶ **Naval Aviation Survival Training Program**
- ▮ **Naval Aviation Water Survival Training Program**
- ▮ **Aeromedical Safety Program**
- ▮ **FAILSAFE Program**
- ▮ **Research, Development, Testing and Evaluation (RDT&E)**

8 Aviation Survival Training



Naval Aviation Survival Training Program Cont.

Teach lectures to include:

▶ **Aviation Physiology**

▮ **Stress and Human Performance**

▮ **Sensory Physiology**

▮ **Emergency Egress/Systems**

▮ **Aviation Life Support Systems**

▮ **G-Tolerance Improvement Program**

▮ **Survival (Self Aid) First Aid**

▮ **Aeromedical Aspects of Ejection**

▮ **Parachute Descent Procedures**

▮ **Survival Equipment**

▮ **Survival Radios**

▮ **Ejection Seat Survival Kits (Seat Kits)**

▮ **Oxygen systems**

Operate the Following Training Devices

- ▶ **9A1 and 9A9 Low Pressure Chamber**
 - ▶ **Chief Observer**
 - ▢ **Inside Instructor/Observer (IO)**
 - ▢ **Outside Lock Stand-By**
 - ▢ **Device recorder**



Low Pressure Chamber 9A9

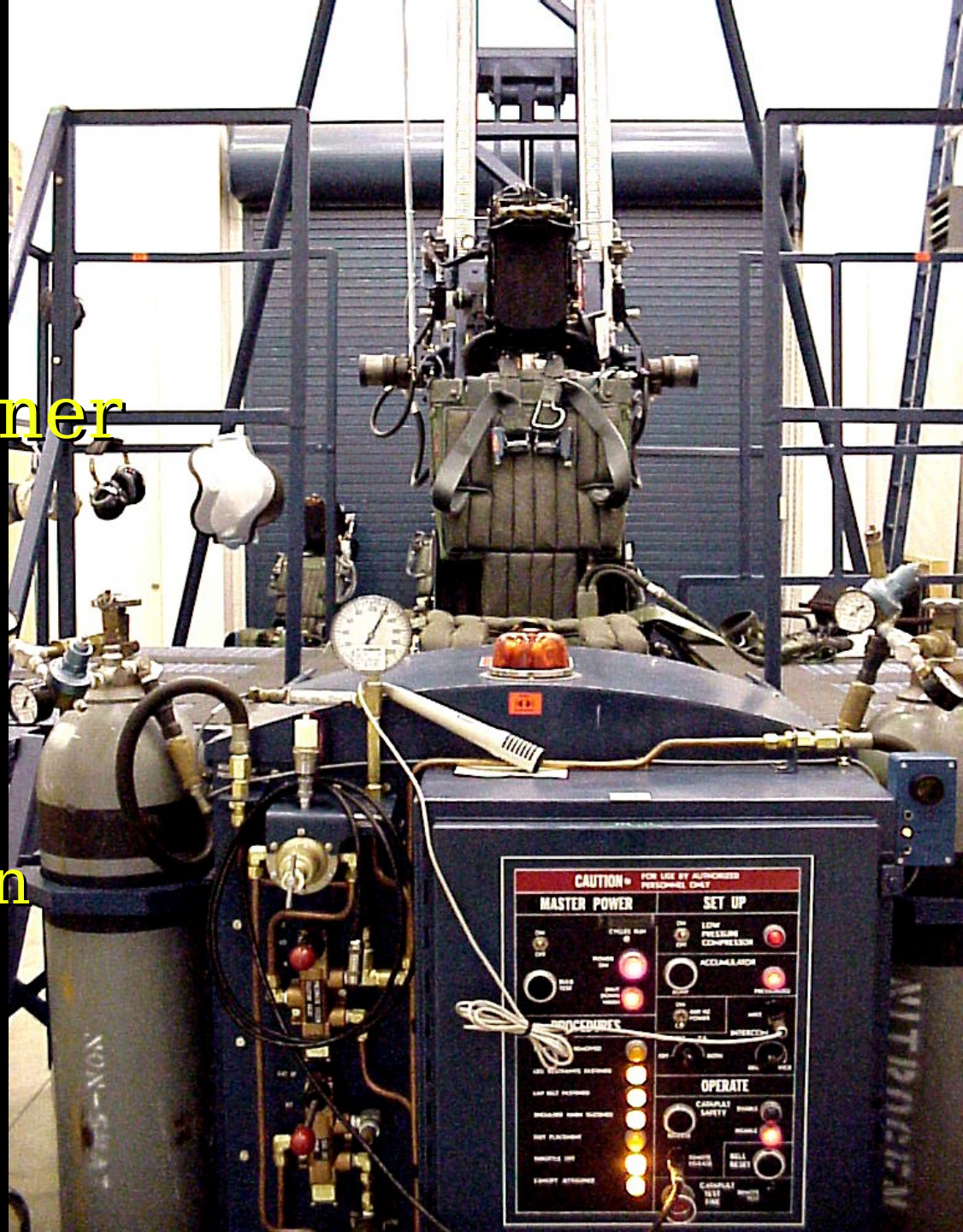
A photograph of two military personnel in flight suits and helmets. The person on the left is giving a high-five to the person on the right. They are both smiling. In the background, there is a large screen displaying a similar image of the two people. The text "Low Pressure Chamber Operations" is overlaid in yellow at the bottom.

Low Pressure Chamber Operations

9E6 Ejection Seat Trainer

Ejection Seat Trainer

- Chief Instructor
- Loader
- Medical Observer
- Recorder
- Monitor Technician



9A16

Centrifuge Trainer

(ASTC Lemoore Only)

► Instructor

▢ Crew
Chief



9A16 Centrifuge Trainer



Naval Aviation Water Survival Training Program

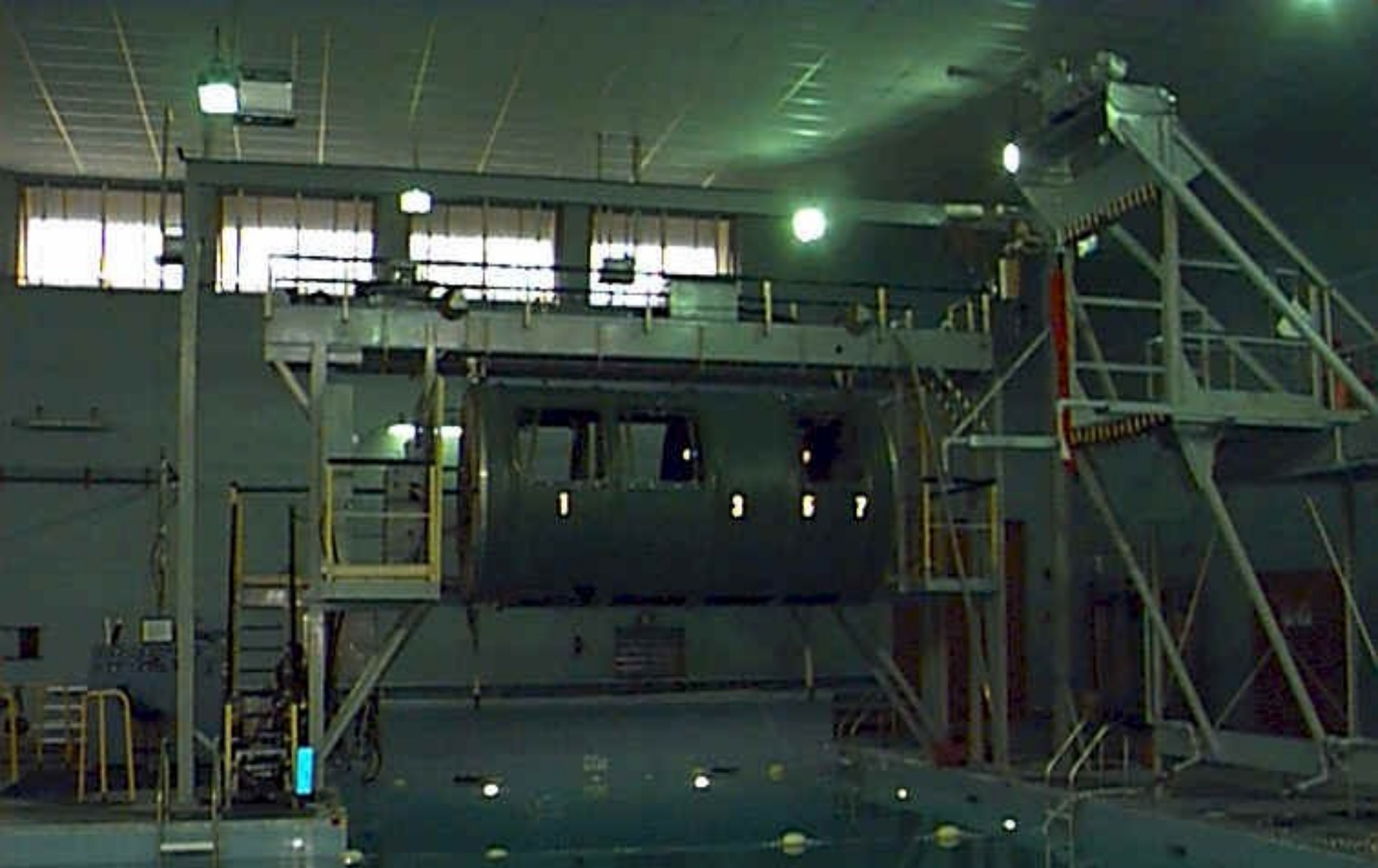
N AWSTRI (Naval Aviation Water Survival Training Instructor)

- ▮ **As a NAWSTI teach lectures for the NASTP**
- ▮ **Run the pool deck for all pool operations**
- ▮ **Supervise all water survival training**

Naval Aviation Water Survival Training Program

NAWSTP Devices:

- **9D5-Multi-Place Underwater Egress Trainer (a.k.a. Helo Dunker)**
- ▯ **9H1-Helicopter Hoist Trainer**
- ▯ **9F2-Parachute In-Water Release Trainer**
- ▯ **PADT-Parachute Avoidance and Disentanglement Trainer**
- ▯ **SWET-Shallow Water Egress Trainer**



**9D5 Multi-Place Underwater
Egress Trainer**



**9E8 Single-Place
Dunker**

9H1 Helicopter Hoist Trainer





9F2 Parachute In-Water Release Trainer



Parachute Avoidance Disentanglement Trainer (PADT)

Aeromedical Safety Program



Assigned as Aeromedical Safety Corpsman (AMSC) 8409's work with Aeromedical Safety Officers (AMSO) to solve Navy & Marine Corps Wing /Group safety issues.

Aeromedical Safety Program

Provide Squadron brief's on the following topics:



- ▶ Night Imaging and Threat Evaluation (NITE Lab), instruct aircrew in Night Vision Goggles (There uses and limitations)
- Laser Systems Safety
- Forward Looking Infra-Red (FLIR) devices
- Spatial Disorientation

FAILSAFE Program

AMSCs assist the AMSO with managing the FAILSAFE Program (Fleet Air Introduction/ Liaison of Survival Aircrew Flight Equipment)



- Responsible for introduction and training on new Survival gear for aviators and aircrew.
- ▢ AMSCs also assist the NAVAIR FAILSAFE Tiger Teams in training the maintainers (Parachute Riggers, Flight Equipment shops) on the new gear.

FAILSAFE Program (cont.)

- ▶ **Along with the AMSO, provide input on Operator Advisory Group (OAG) Conferences by providing fleet input as to where NAVAIR funding priorities should be placed for new survival gear.**
- ▮ **Attend In-Service Management Panels (IMP) to provide fleet input on discrepancies and solutions with survival gear already in NAVAIR inventory.**

Aeromedical Safety Program

AMSC Billets

MARFORLANT	Norfolk, VA
2nd MAW	Cherry Point, NC
MAG-14	Cherry Point, NC
MAG-26	New River, NC
MAG-29	New River, NC
MAG-31	Beaufort, SC
1st MAW	Okinawa, Japan
MAG-12	Iwakuni, Japan
MAG-36	Okinawa, Japan
ASE	Kaneohe Bay, HI
3rd MAW	San Diego, (Miramar)
MAG-11	San Diego, (Miramar)
MAG-13	Yuma, AZ
MAG-16	San Diego, (Miramar)
MAG-39	Oceanside, CA (Camp Pendleton)
4th MAW	New Orleans, LA (Reserves)
MAWTS-1	Yuma, AZ
HMX-1	Quantico, VA
COMHSWINGPAC	NAS North Island
NAWC	China Lake (Test Jump billet)
NSWC	NAS Fallon (In the works)

Testing and Evaluation (RDT&E)

**Assist Aeromedical Research
Physiologists**

RDT&E Sites include:

- ▶ **Naval Aerospace Research Medical Lab
(NAMRL) - NAS Pensacola, FL**

The laboratory's mission is to conduct research and development in spatial orientation, human performance, aeromedical standards, and aviation medicine.

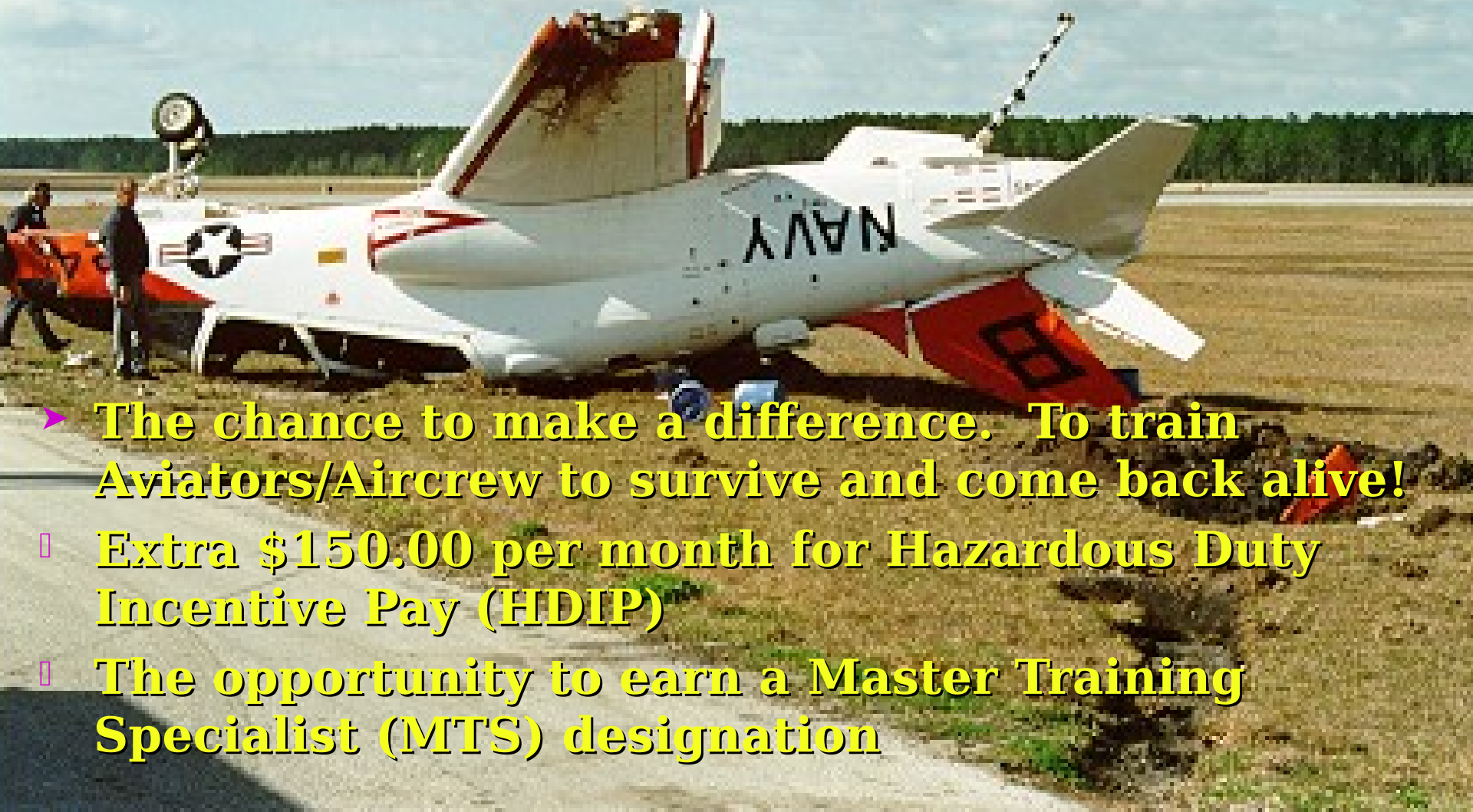
- ▣ **Naval Air Warfare Center (NAWC),
Patuxent River, MD (Aircraft Division)**

Program Requirements



- ▶ **HM at least E-4**
- **Meet the physical requirements for Aerospace Physiology Technician candidate as set forth in the Manual of the Medical Department**
- **Make sure that a Sinus Series x-ray film is performed as part of your physical exam. (Must be checked by NAMI, Code 42)**
- **Meet all requirements of the MILPERSMAN**

Why become an 8409?



- ▶ The chance to make a difference. To train Aviators/Aircrew to survive and come back alive!
- ▣ Extra \$150.00 per month for Hazardous Duty Incentive Pay (HDIP)
- ▣ The opportunity to earn a Master Training Specialist (MTS) designation

Other Opportunities

- ▶ Depending on the unit, the opportunity to go to Jump School or SCUBA School (again not a guarantee but the opportunity is there)
- ▮ Challenging Sea Duty as an AMSC. Usually working independently with the AMSO. There is great responsibility, but with it comes the chance to prove yourself and stand out among your peers
- ▮ The opportunity to obtain a college degree (while on shore duty) and possibly a commission as an MSC Officer

Questions ?



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